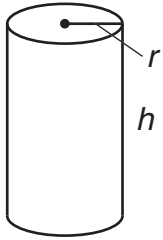


Grades 7 and 8 Mathematics Reference Sheet

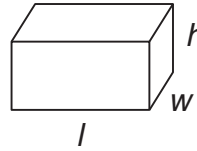
Use the information below as needed to answer questions on the mathematics test.

Cylinder



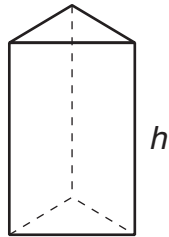
$$\text{Volume} = \pi r^2 h$$

Rectangular Solid



$$\text{Volume} = lwh$$

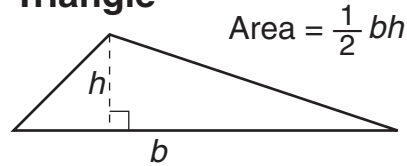
Prism



$$\text{Volume} = Bh$$

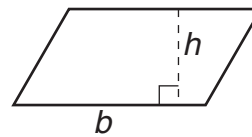
where B = area of base

Triangle



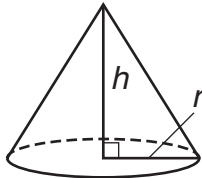
$$\text{Area} = \frac{1}{2} bh$$

Parallelogram



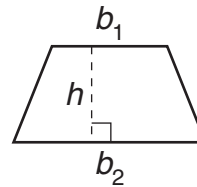
$$\text{Area} = bh$$

Cone



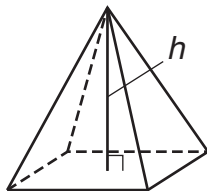
$$\text{Volume} = \frac{1}{3} \pi r^2 h$$

Trapezoid



$$\text{Area} = \frac{1}{2} h(b_1 + b_2)$$

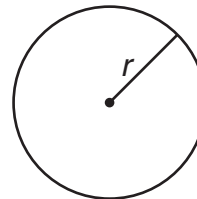
Pyramid



$$\text{Volume} = \frac{1}{3} Bh$$

where B = area of base

Circle



$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

$$\pi \approx 3.14$$

Standard Units

- 3 feet = 1 yard
- 12 inches = 1 foot
- 5280 feet = 1 mile
- 8 ounces = 1 cup
- 2 cups = 1 pint
- 2 pints = 1 quart
- 4 quarts = 1 gallon
- 16 ounces = 1 pound
- 2000 pounds = 1 ton

Metric Units

- 1000 millimeters = 1 meter
- 100 centimeters = 1 meter
- 1000 meters = 1 kilometer
- 1000 liters = 1 kiloliter
- 1000 grams = 1 kilogram

